

**DESIGN AND IMPROVEMENT OF DATABASE FOR INVENTORY AND
PREVENTIVE MAINTENANCE SYSTEM OF INDUSTRIAL PARTS AND
COMPONENTS USING MICROSOFT EXCEL AND GRAPHICAL USER
INTERFACE (GUI)**

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"I declared that this thesis is the result of my own work except the ideas and summaries which I have clarified their sources. The thesis has not been accepted for any degree and is not concurrently submitted in candidature of any degree"

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ABSTRACT

The number of industrial companies especially small and medium type, that still stored crucial information regarding industrial parts and components using files and documentations is huge. This particular project will solve this issue by designing a DBMS for inventory and preventive maintenance system of industrial parts and components by integration of Microsoft Excel and Visual Basic for Applications software. VBA is a program that built into most of Microsoft Office applications and it utilized the system applied in Visual Basic programming language. All data and information involve will be arranged and managed using Microsoft Excel and VBA act as tool to create Graphical User Interface application for the database. Resulting from that, an interesting GUI window is produced and from that window, user can search any part or component using specific id, and program will display all required information together with photo and preventive maintenance schedule of the particular part or component. It is believe that within this new form of DBMS, common problems of using files and documentations to store information will be totally removed.

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